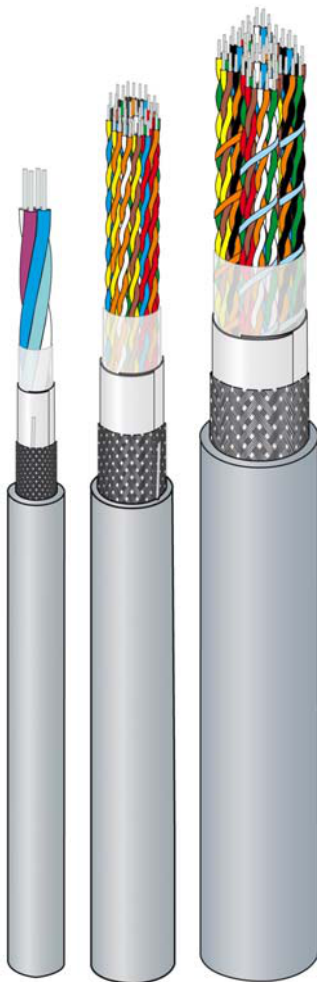


# HF Pair cables TEL 481 02

ELAFQBU/120



## Features

- Impedance 120 ohm
- Screened by an aluminum foil and copper braid
- Cable sizes 1 -32 pair as standard
- UL listed
- Halogen-free design
- ROHS compliant

## Application

Intended for indoor use in transmissions systems. Ideally suited for E1 transmission applications.

The cable is polyethylene insulated, pair twisted screened by an aluminum foil and braid. Overall a jacket of halogen-free compound is applied.



**LISTED E194530**



### Cable design

- *Conductor*.....solid tin-plated copper wire.....Ø 0.4 mm
- *Insulation*.....solid polyethylene, TEL 481 02/001 foam skin PE
- *Pair*.....twisted pairs, TEL 481 02/4 quad.
- *Unit*.....eight pairs stranded into a unit with color coded binder
- *Lay up*.....1-16 pair: concentric stranded pairs in one unit. *Figure 1*  
24, 32 pair: concentric stranded with 8 pair units. *Figure 2*  
TEL 481 02/4, *figure 3*
- *Wrapping*.....plastic tape
- *Screen*.....aluminum foil and braid of tinned copper wires.
- *Drain wire*.....tinned copper wire Ø 0.4 mm
- *Jacket*.....flame retardant halogen free thermoplastic compound.

Figure 1

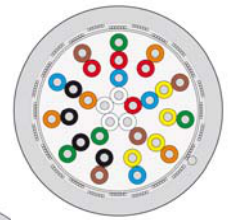


Figure 2

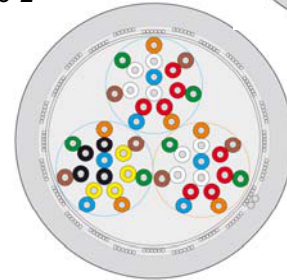
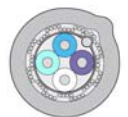


Figure 3



### General data

- Operating voltage*...100 V
- Operating temp*....-20 to +75 °C
- Bending radius*....6x diam. (min)
- Flame resistance*...IEC 60332-3- 24,  
UL 444, rating according to table 1
- Halogen free*.....IEC 60754-2
- Marking on jacket*...manufacturer, year and week of  
manufacture, Ericsson product No.,  
UL marking and length marking
- Color*.....Grey

### Electrical data

- Rated to*.....16 MHz
- Resistance*.....153 ohm/km (max)
- Impedance*.....120±15 ohm at 1 MHz
- Attenuation*.....according to table 1
- Near end crosstalk loss*...52 dB at 1 MHz
- Transfer impedance*.....10 mohm/m (30 MHz)

### Order information

Product number	Number of pairs x conductor diam	Delivery length/ drum	Cable Diam. mm	Net weight kg/100m
TEL 481 02/001	1x2x0.4	500 m/K3	4.4	2,9
TEL 481 02/4	2x2x0.4	2000 m/K5	4.5	2,9
TEL 481 02/002	2x2x0.4	500 m/K4	4.7x7.1	3,8
TEL 481 02/004	4x2x0.4	500 m/K4	6.1	5,0
TEL 481 02/008	8x2x0.4	500 m/K5	8.3	7,5
TEL 481 02/016	16x2x0.4	500 m/K6	10.1	13
TEL 481 02/024	24x2x0.4	500 m/K6	12.2	16
TEL 481 02/032	32x2x0.4	500 m/K8	13.5	21

Table 1

Product number	Attenuation dB/100m max.	UL rating
TEL 481 02/001	3.2	CMR
TEL 481 02/4	3.3	CMG
TEL 481 02/002	3.4	CMG
TEL 481 02/004	3.0	CMR
TEL 481 02/008	2.8	CMR
TEL 481 02/016	2.8	CM
TEL 481 02/024	2.8	CM
TEL 481 02/032	2.8	CM

### Color code 2 – 32 pair

Unit No	Pair No.	Color of core A-core	B-core	Identification color of unit
1 A	1	white	blue	Blue
	2	white	orange	
	3	white	green	
	4	white	brown	
	5	red	blue	
	6	red	orange	
	7	red	green	
	8	red	brown	
1 B	9	black	blue	Blue
	10	black	orange	
	11	black	green	
	12	black	brown	
	13	yellow	blue	
	14	yellow	orange	
	15	yellow	green	
	16	yellow	brown	
2 A	17 - 24	See unit 1 A		Orange
2 B	25 – 32	See unit 1 B		Orange

### Color code 1 pair, TEL 481 02/4

Pair No.	Color of core A-core	B-core
1	white	black

Pair No.	Color of core A-core	B-core
1	white	blue
2	turquoise	violet